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Beyond the Statistical Abstract

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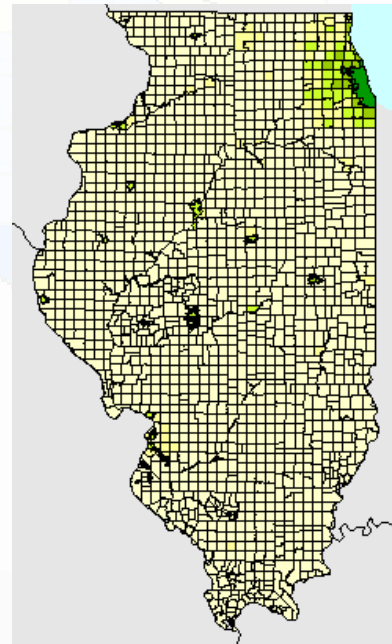
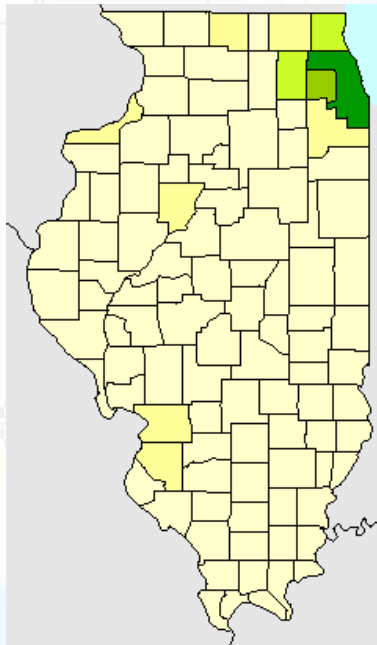
Mapping Data

Stacey Knight-Davis
Eastern Illinois University

Thematic Maps

Show a distribution or pattern

Level of detail in the map depends on
the detail in the data





Geographic Information Systems

Links location to data

- Locations can be...
 - States
 - Counties
 - City Blocks
 - Map coordinates
- Data can come from...
 - Census, USGS, Scientific Studies
 - Or any geo-coded source



Getting Started

No special software needed!

Thematic map utility at
National Atlas

<http://www.nationalatlas.gov/>

National Atlas Map Maker



nationalatlas.gov™
Where We Are

Type search words for nationalatlas.gov



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**MAP
MAKER**

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Home

Welcome to the National Atlas of the United States of America®

You've seen other atlases. They're typically big books of paper maps. The pages in this atlas are here on the Internet whenever you need them. This is a new portrayal of America in maps. We use new technologies, but we honor traditions of accuracy, reliability, and innovation. You've found the single best Federal source for national maps and geographic information on the Web. The people and places of the United States are here.

- See [What's New](#) -

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Order larger maps suitable for the wall of your office, home, or classroom.

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Play with interactive maps.

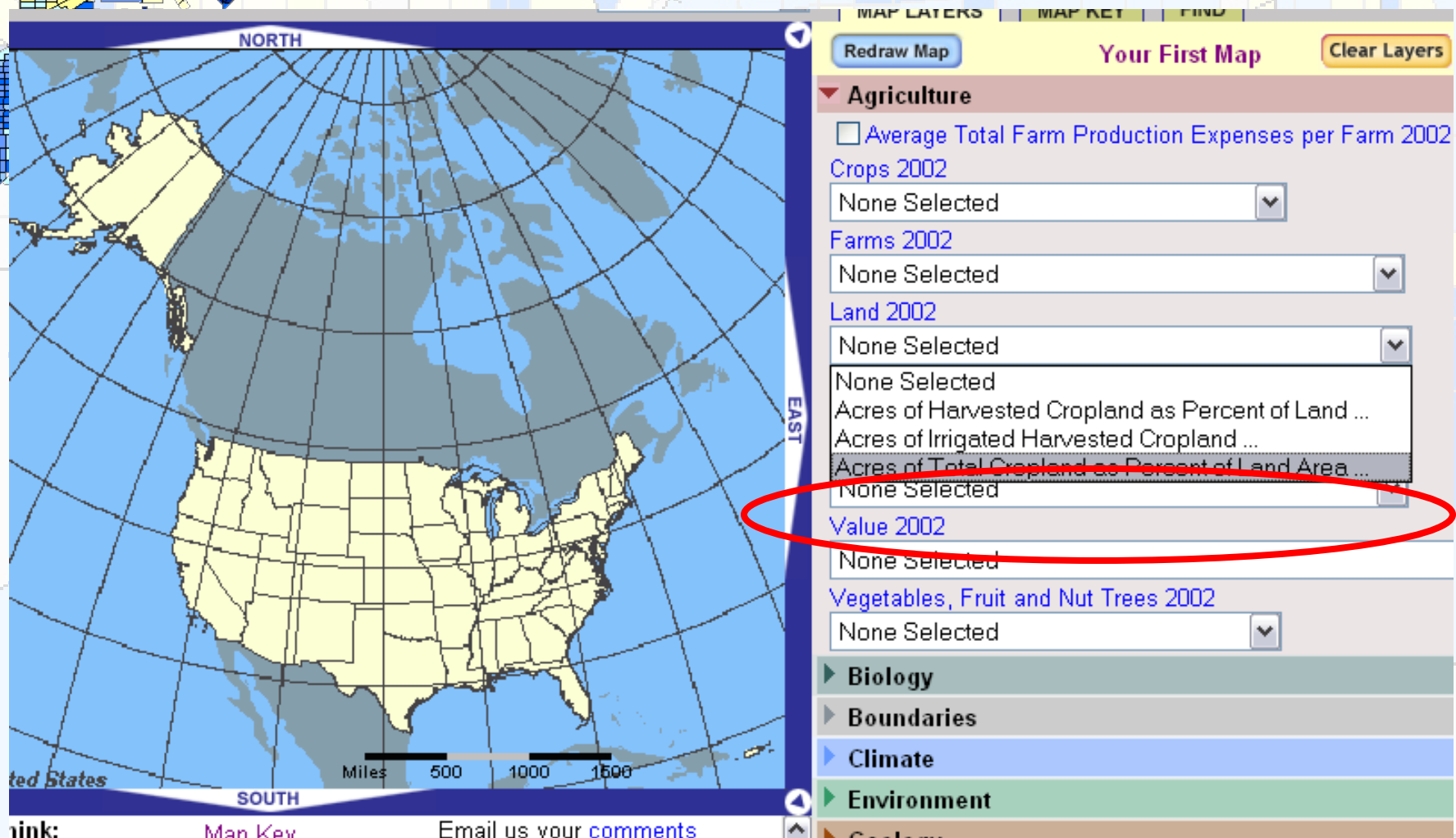
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[Articles](#)

[Download documented.](#)

Select a Theme



MAP LAYERS | **MAP KEY** | **FIND**

Redraw Map **Your First Map** **Clear Layers**

▼ Agriculture

- ☐ Average Total Farm Production Expenses per Farm 2002
- Crops 2002**
None Selected
- Farms 2002**
None Selected
- Land 2002**
None Selected
None Selected
Acres of Harvested Cropland as Percent of Land ...
Acres of Irrigated Harvested Cropland ...
Acres of Total Cropland as Percent of Land Area ...
None Selected
- Value 2002**
None Selected
- Vegetables, Fruit and Nut Trees 2002**
None Selected

► Biology

► Boundaries

► Climate

► Environment

► Geology

► History

► Land Use

► Population

► Social

► Topography

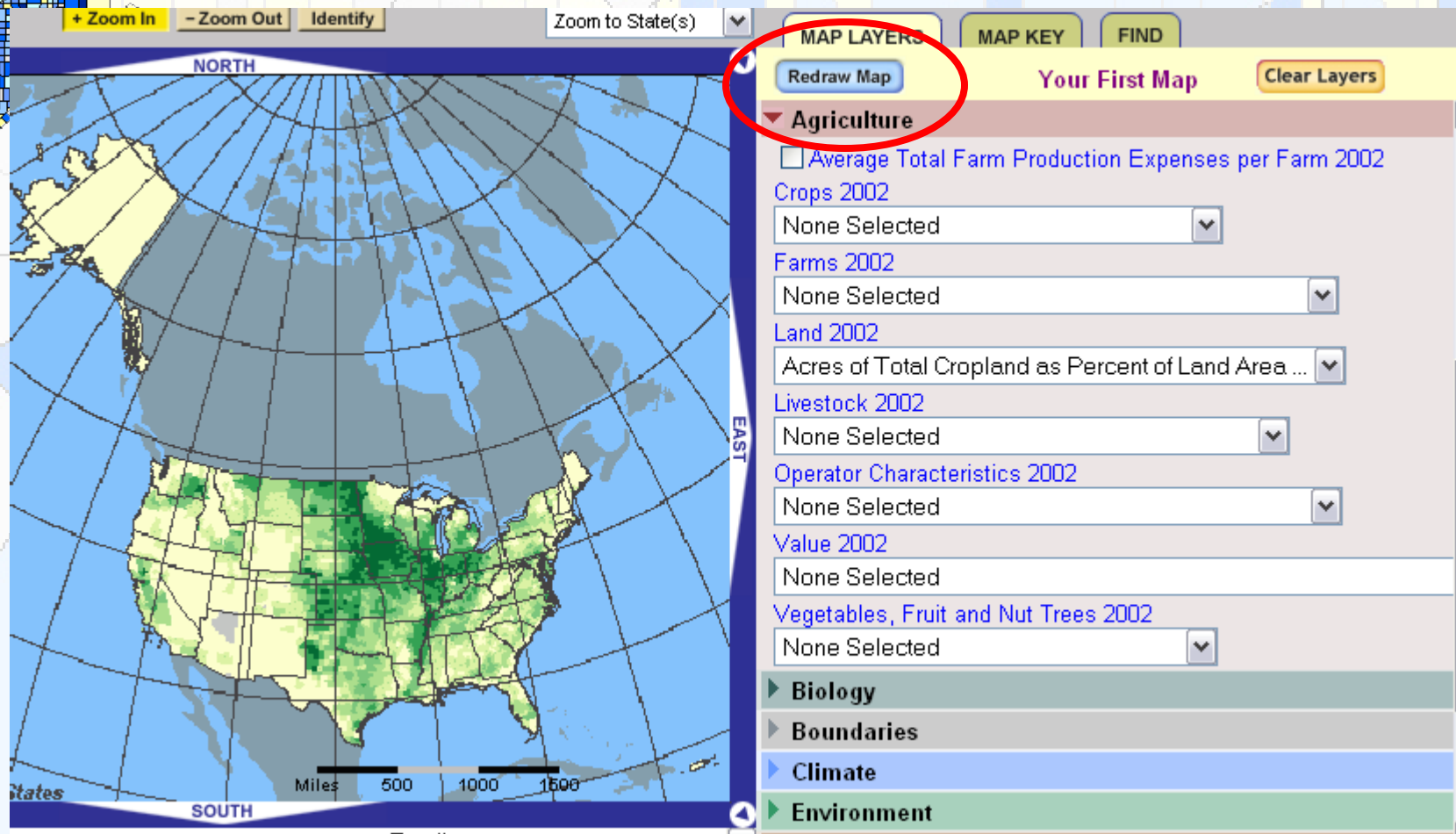
► Water

► Weather

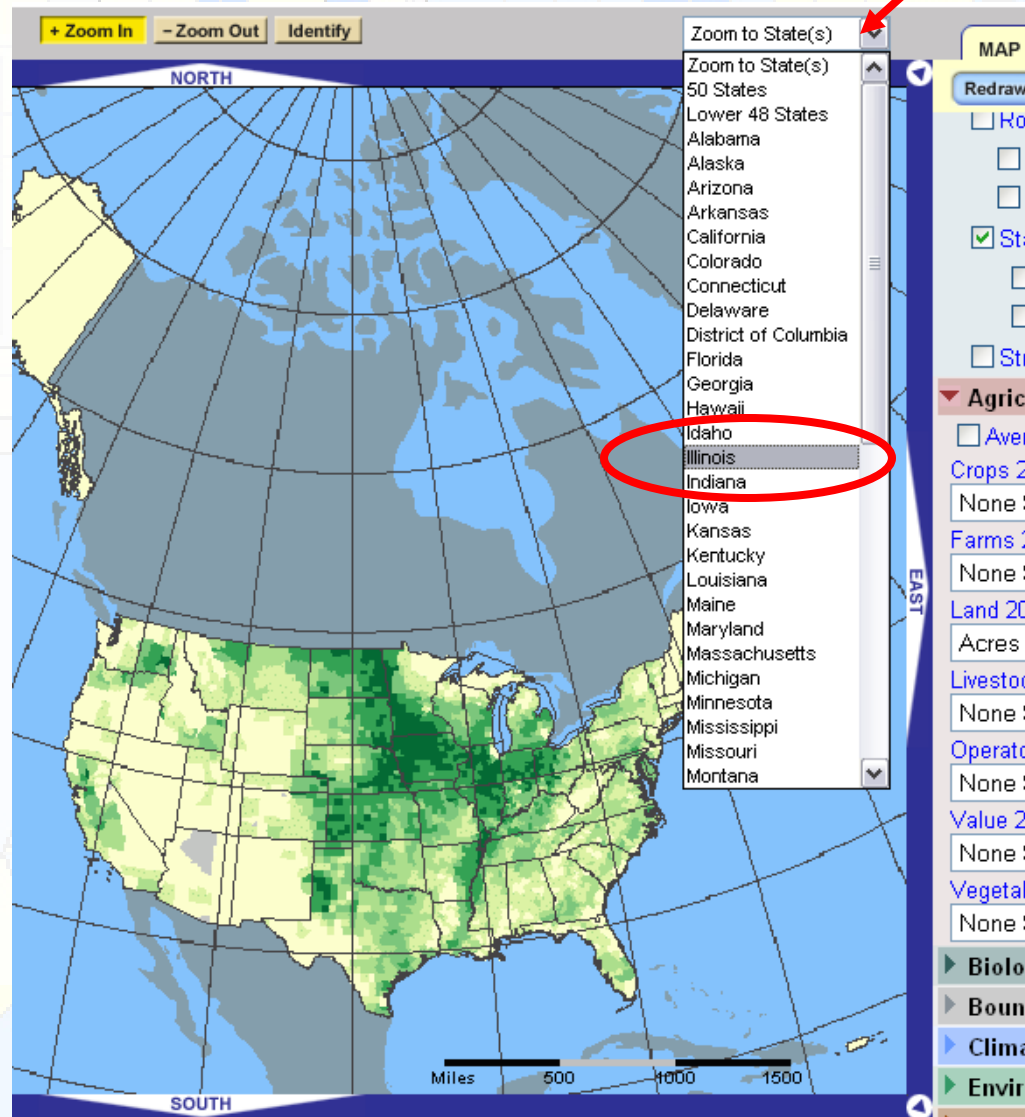
► Other

Link: [Main Key](#) [Email us your comments](#)

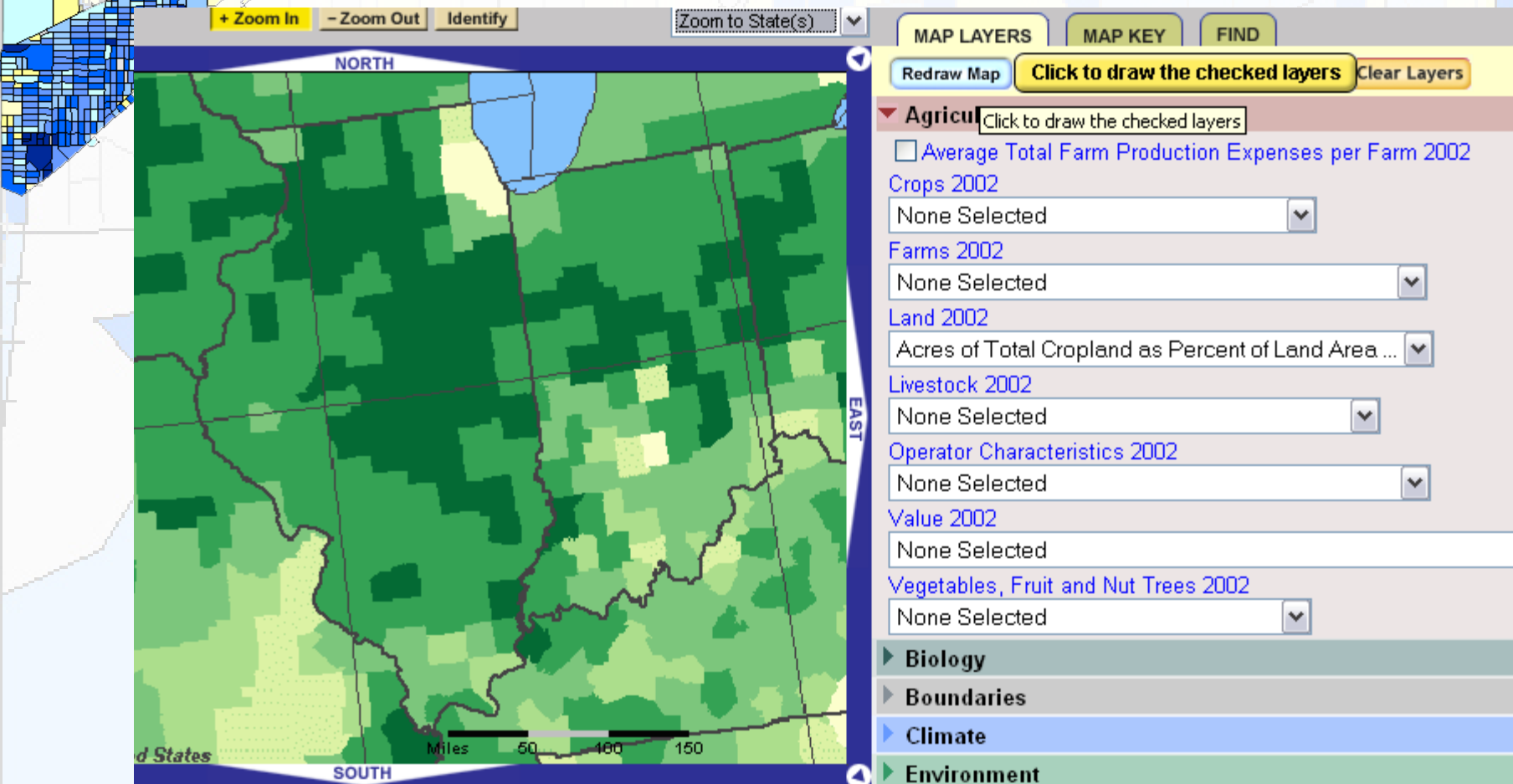
Map It!



Select a State



Map It!



Pinpoint a location

The screenshot shows a web-based map application. On the left is a map of the United States with a grid overlay and red dots indicating locations. The map is labeled with 'NORTH' at the top, 'SOUTH' at the bottom, and 'EAST' on the right. A scale bar at the bottom indicates distances of 500, 1000, and 1500. Above the map are controls: '+ Zoom In', '- Zoom Out', 'Identify', and a 'Zoom to State(s)' dropdown menu. On the right is a yellow sidebar titled 'Your First Map' with a 'Clear Layers' button. It contains three search sections: 'Find a Place' with a 'Feature Name' input field and a 'Find It!' button; 'Find a Zip Code' with a 'Zip Code' input field containing '61920' and a 'Find It!' button; and 'Find a Feature' with a 'Find Features' link. The 'FIND' button at the top of the sidebar and the '61920' input field are circled in red.

Map Controls:

- + Zoom In
- Zoom Out
- Identify
- Zoom to State(s)

Map Labels:

- NORTH
- SOUTH
- EAST

Search Interface:

Find a Place

Enter a name to search.

Feature Name

[Advanced Search](#) [Find It!](#)

Find a Zip Code

Enter a zip code to search.

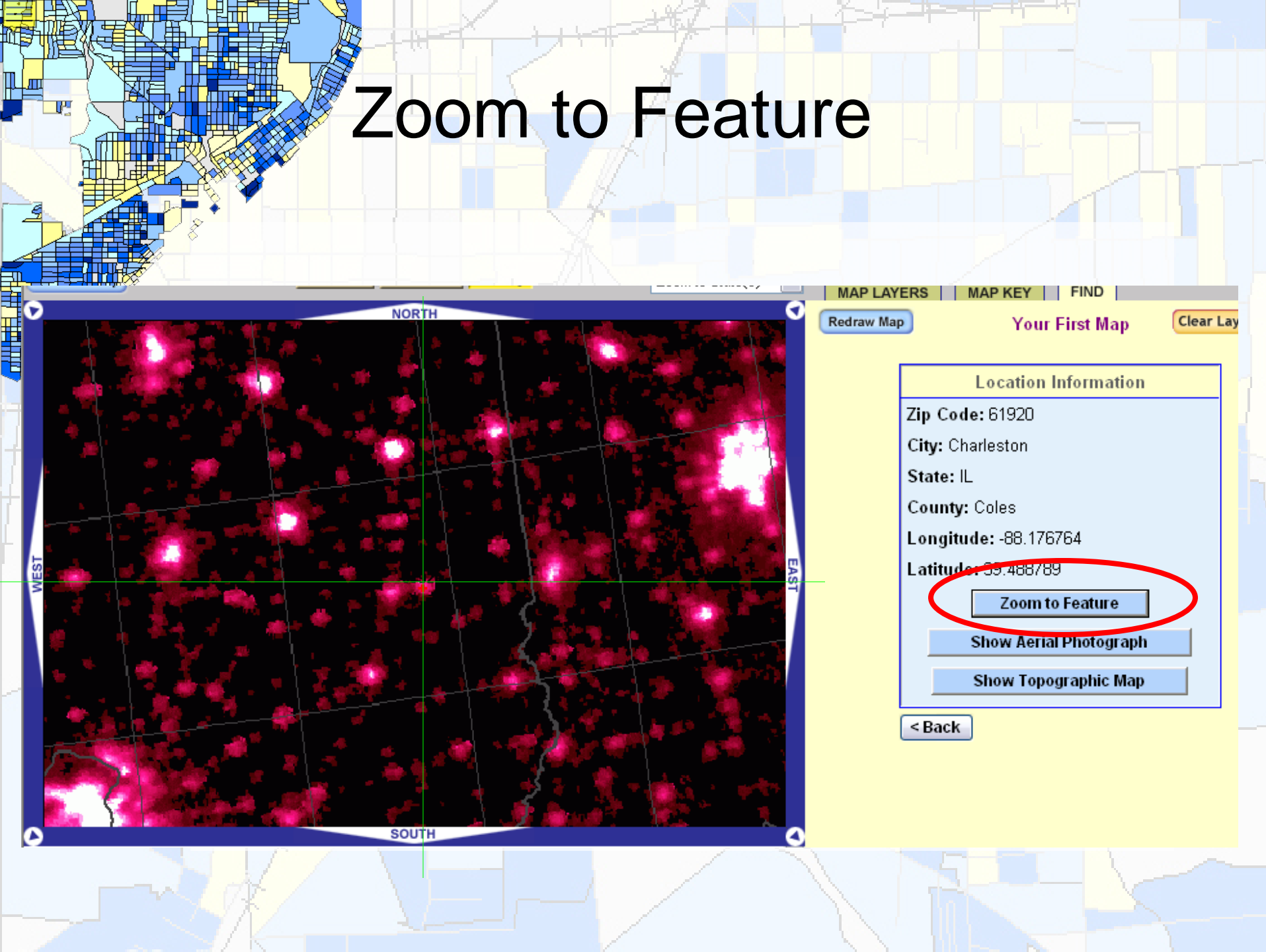
Zip Code

[Find It!](#)

Find a Feature

[Find Features](#)

Zoom to Feature





American FactFinder

<http://factfinder.census.gov/>

- 1990 & 2000 Decennial Censuses
- 2004 American Community Survey
- 2004 Population Estimates
- 1997 & 2002 Economic Censuses

Getting Started

U.S. Census Bureau



American FactFinder

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POPULATION
FINDER

FACT SHEET

PEOPLE

HOUSING

BUSINESS AND
GOVERNMENT

ABOUT THE DATA

DATA SETS

MAPS AND
GEOGRAPHY

REFERENCE SHEET

TOOLS

Address Search...

Enter a [street address](#)
to find Census 2000
data

• [Browser Notes](#)

Your source for population, housing, economic, and geographic data

Fast Access to Information



Get a **Fact Sheet** for your community...

city/town,
county, or zip

state

-- select a state --



GO

[or select a state using a map »](#)

For age, education, income, and race, click [People](#).

For home values, ownership, and mortgage, click [Housing](#).

For foreign trade, governments, and housing starts, click [Business and Government](#).

Getting Detailed Data

To learn about Data Sets, check out [About the Data](#).

Expert user? Go directly to [Data Sets](#).

What's New

What it's worth: the value of an education, with earnings data by sex and level of educational attainment. [more »](#)

The 2004 annual report on Income, Earnings, Poverty, and Health Insurance Coverage from the Current Population Survey (CPS) has been released. [more »](#)

2004 American Community Survey (ACS) data and updates to American FactFinder released August 30, 2005. [more »](#)

U.S. Population Clock

16:04 GMT (EST+5) Oct 05, 2005



297,349,945

more [population clocks »](#)

In the Spotlight



Hurricanes Katrina and Rita
[News Releases and Census Data](#)



Results from the 2004 American Community Survey have been released, including [Subject Tables](#), [Ranking Tables](#), and [Thematic Maps](#). [more »](#)

Access detailed ACS data from the [Data Sets](#) page.

2002 Economic Census data continue to be released on a flow basis, as [Quick Reports](#) and [Detailed Statistics Data Sets](#). Newly released [Thematic Maps](#) are now available.

[past items »](#)

Thematic Maps

U.S. Census Bureau



American FactFinder

[Main](#) [Search](#) [Feedback](#) [FAQs](#) [Glossary](#) [Site Map](#) [Help](#)

Maps

POPULATION
FINDER

FACT SHEET

PEOPLE

HOUSING

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GEOGRAPHY

REFERENCE SHELF

TOOLS

[Main](#) ► Maps and Geography

MAPS IN AMERICAN FACTFINDER

American FactFinder (AFF) has two tools for creating, viewing, printing, and downloading maps:

- [Reference Maps](#) - A tool to view the boundaries of census geographies, such as counties, cities and towns, urban areas, congressional districts, census tracts, census blocks, and more.
- [Thematic Maps](#) - A tool to view geographic patterns in census data. Thematic Maps are available for Census 2000, the 1990 Census, the Economic Census, and the Population Estimates program.

For guidance in using these mapping tools, see the [Creating and Using Maps](#) tutorial.

Using Reference Maps

The reference map shows you selected geographic boundaries for an area along with orienting features, such as roads. To view a reference map, select the geographic area you want to see. You can customize the map by adding different boundaries or features.

The map always starts with a view of the United States, but you can change that by clicking on the area of the map you want to view in more detail, or by selecting a new geography using the geography link at the top of the [Reference Map](#) page.

Click 'Quick tips' for assistance in navigating or customizing your map.

Default Map

Thematic Maps

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ [Geography](#) ▶ [Themes](#) ▶ [Results](#)

[Print](#) / [Download](#) | [Related Items](#)

Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Persons/Sq Mile

- 1 - 103
- 133 - 296
- 401 - 703
- 810 - 1134
- 9316 - 9316

Features

- Major Road
- Street
- Stream/Waterbody

Items in gray text
are not visible
at this zoom level



United States by State

TM-P002. Persons per Square Mile: 2000

Universe: Total population

Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expsf1u.htm>.

☐ Identify - geo name and data value

Click map to:

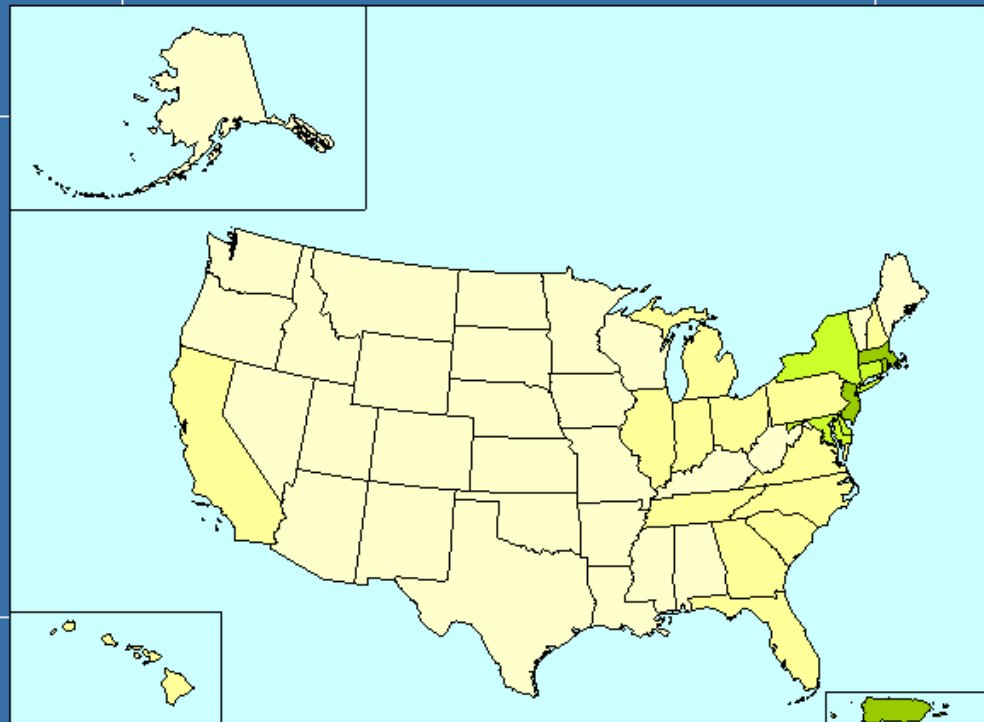


☐ U.S. View

Zoom:



Display map by: State



Changing the Map

Google factfinder

U.S. Census American

Thematic Maps

You are here: [Main](#) ▶ [All Data](#)

Change

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Persons/Sq Mile

1 - 103
133 - 296
401 - 703
810 - 1134
9316 - 9316

Classes **Boundaries** **Features** **Title**

Modify classes and click 'Update'

Number of classes

Color scheme

Classing method

[Update](#) [Cancel](#) [Help](#)

[Explore](#) [Methods](#)

Internet

Changing the Map

| [Print](#) / [Download](#) | [Related Items](#)

Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Persons/Sq Mile

- 1 - 27
- 33 - 75
- 80 - 141
- 165 - 296
- 401 - 703
- 810 - 1134
- 9316 - 9316

Features

- Major Road
- Street
- Stream/Waterbody

Items in gray text
are not visible
at this zoom level



United States by State

TM-P002. Persons per Square Mile: 2000

Universe: Total population

Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expsf1u.htm>.

☐ Identify - geo name and data value

Click map to:



☐ U.S. View

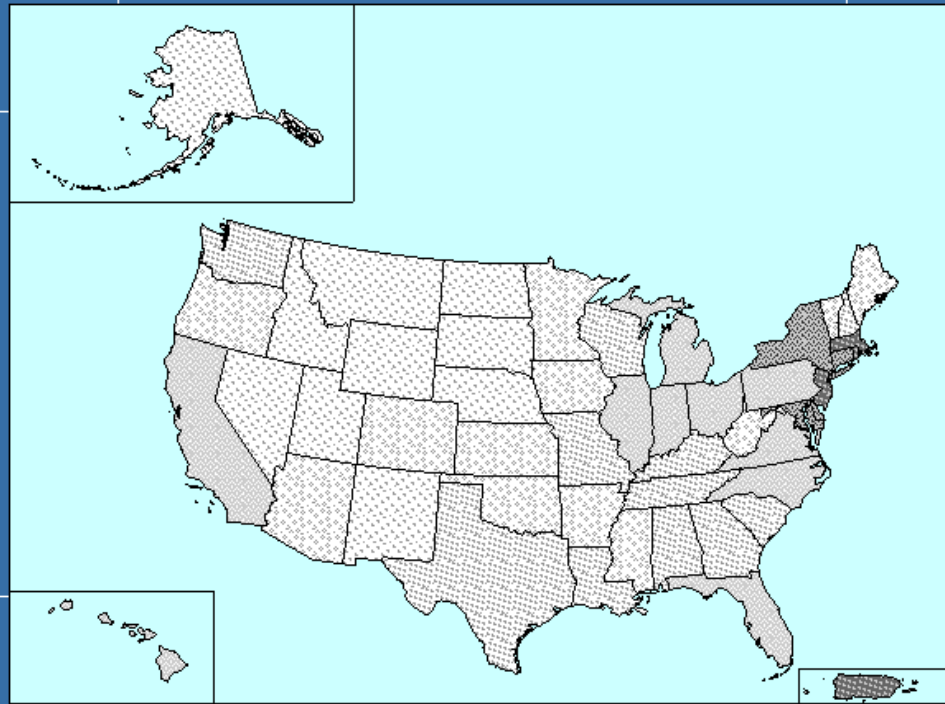
Zoom:



U.S.

Street

Display map by: State



Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrix P1.

Changing the Data Set

Thematic Maps

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ [Geography](#) ▶ [Themes](#) ▶ [Results](#)

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Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Persons/Sq Mile

- 1 - 27
- 33 - 75
- 80 - 141
- 165 - 296
- 401 - 703
- 810 - 1134
- 9316 - 9316

Features

Major Road
Street
Stream/Waterbody

Items in gray text
are not visible
at this zoom level



United States by State


TM-P002. Persons per Square Mile: 2000 ?

Universe: Total population

Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expsf1u.htm>.

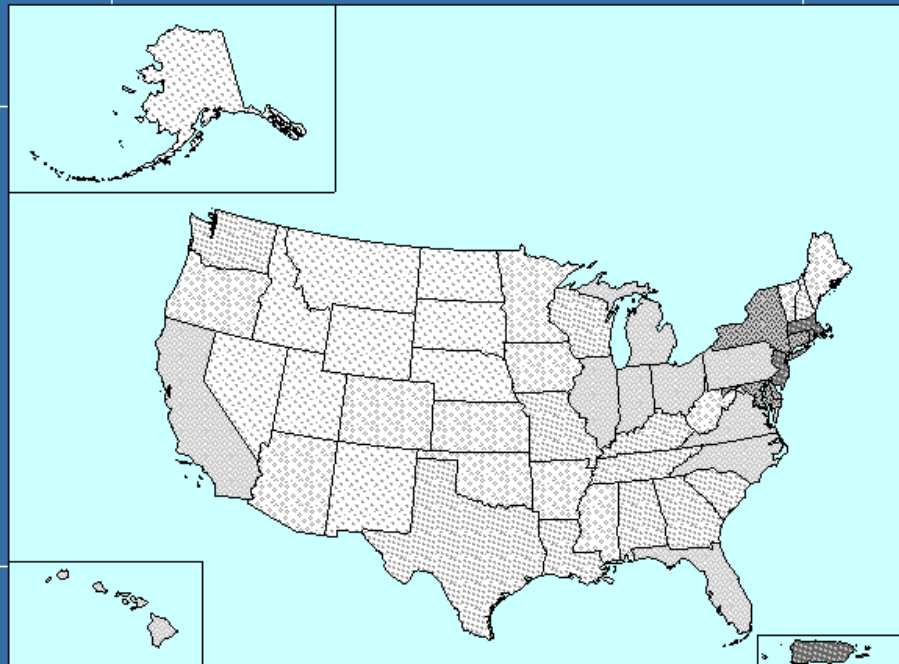
☐ Identify - geo name and data value

Click map to:  

☐ U.S. View

Zoom: 
U.S. Street

Display map by: State



Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrix P1.

Changing the Data Set

Select a Data Set

You are here: [Main](#) ▶ [All Data Sets](#) ▶ **Data Sets with Thematic Maps**

[Load Query](#) | [Clear all selections](#)

■ Select a data set and click 'Next'

==== 1990 & 2000 Decennial Census ====
Census 2000 Summary File 1 (SF 1) 100-Percent Data
Census 2000 Summary File 3 (SF 3) - Sample Data
109th Congressional District Summary File (Sample)
109th Congressional District Summary File (100-percent)
Census 2000 Redistricting Data (Public Law 94-171) Summary File
1990 Summary Tape File 1 (STF 1) - 100-Percent data
1990 Summary Tape File 3 (STF 3) - Sample data
==== 2000-2004 American Community Survey ====
2004 American Community Survey
==== Annual Population Estimates ====
2004 Population Estimates
==== 1997 & 2002 Economic Censuses ====
All sectors: Geographic Area Series: Economy-Wide Key Statistics: 2002
All sectors: Economic-Wide Key Statistics: 1997

What's this?

Next ▶

[See list of all data sets](#)

Select Geographic Type

Select Geography

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ **Geography** ▶ Themes ▶ Results
Census 2000 Summary File 1 (SF 1) 100-Percent Data, Thematic Maps

Choose a selection method

list

name search

address search

map

[Show all geography types](#) | [i Explain Census Geography](#)

Choose a [geographic type](#)

- Nation
- Nation
- Region
- Division
- State
- County
- County Subdivision
- Subbarrio
- Census Tract
- Place
- Consolidated City
- Alaska Native Regional Corporation
- Congressional District - 106th
- American Indian Area/Alaska Native Area/Hawaiian Home Land
- Tribal Census Tract
- Tribal Subdivision/Remainder
- Metropolitan Statistical Area/Consolidated Metropolitan Statistical Area
- Primary Metropolitan Statistical Area
- New England County Metropolitan Area
- Urban Area
- 3-Digit ZIP Code Tabulation Area

County Subdivision
will allow mapping at
the Block level

Geography available is
determined by data set
chosen

Select Area

Select Geography

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ **Geography** ▶ Themes ▶ Results

Census 2000 Summary File 1 (SF 1) 100-Percent Data, Thematic Maps

■ Choose a selection method

list

name search

address search

map

[Show all geography types](#)

[i Explain Census Geography](#)

■ Select a [geographic type](#)

..... County Subdivision



■ Select a state

Illinois



■ Select a county

Peoria County



■ Select a geographic area and click 'Show Result'

Kickapoo township
Limestone township
Logan township
Medina township
Millbrook township
Peoria City township
Princeville township
Radnor township
Richwoods townshin



Map It

Show Result ▶

Changing Themes

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ [Geography](#) ▶ [Themes](#) Results

[Print / Download](#) | [Related Items](#)

Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Persons/Sq Mile

- 48 - 533
- 1029 - 2002
- 2413 - 3463
- 4023 - 5498
- 5756 - 8251

Features

- Major Road
- Street
- Stream/Waterbody
- Stream/Waterbody



Peoria City township, Peoria County, Illinois by Census Tract

TM-P002. Persons per Square Mile: 2000 ?

Universe: Total population

Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expsf1u.htm>.

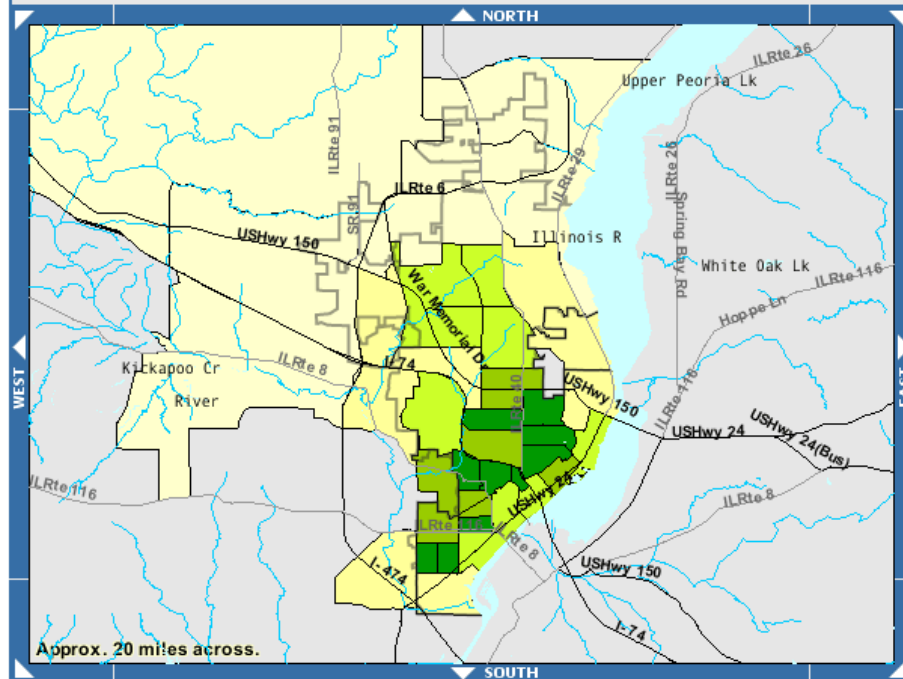
Identify - geo name and data value

Click map to:    

20 miles across

Zoom:  U.S. Street

Display map by: Census Tract



Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrix P1.

Select New Theme



American FactFinder

Main

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Select Theme

You are here: [Main](#) ▶ [All Data Sets](#) ▶ [Data Sets with Thematic Maps](#) ▶ [Geography](#) ▶ **Themes** ▶ Results

Census 2000 Summary File 1 (SF 1) 100-Percent Data, Thematic Maps

■ Choose a theme selection method

by subject

by keyword

show all themes

■ Select a theme and click 'Show Result'

TM-P019F. Percent of Persons Under 18 Years (Some Other Race Alone): 2000
TM-P019G. Percent of Persons Under 18 Years (Two or More Races): 2000
TM-P019H. Percent of Persons Under 18 Years (Hispanic or Latino, of any race): 2000
TM-P019I. Percent of Persons Under 18 Years (White Alone, Not Hispanic or Latino): 2000
TM-P020. Percent of Persons 65 Years and Over: 2000
TM-P020A. Percent of Persons 65 Years and Over (White Alone): 2000
TM-P020B. Percent of Persons 65 Years and Over (Black or African American Alone): 2000
TM-P020C. Percent of Persons 65 Years and Over (American Indian and Alaska Native Alone): 2000
TM-P020D. Percent of Persons 65 Years and Over (Asian Alone): 2000
TM-P020E. Percent of Persons 65 Years and Over (Native Hawaiian and Other Pacific Islander Alone): 2000

What's this?

Show Result ▶

Zoom In

Thematic Maps

You are here: [Main](#) | [All Data Sets](#) | [Data Sets with Thematic Maps](#) | [Geography](#) | [Themes](#) | [Results](#)

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Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Percent
0.0 - 8.4
8.5 - 19.0
19.2 - 34.2
34.7 - 63.6
64.3 - 100.0

Features

- Major Road
- Street
- Stream/Waterbody
- Stream/Waterbody



Peoria City township, Peoria County, Illinois by Block

TM-P020. Percent of Persons 65 Years and Over: 2000 ?

Universe: Total population

Data Set: Census 2000 Summary File 1 (SF 1) 100-Percent Data

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expsf1u.htm>.

Identify - geo name and data value

Click map to:

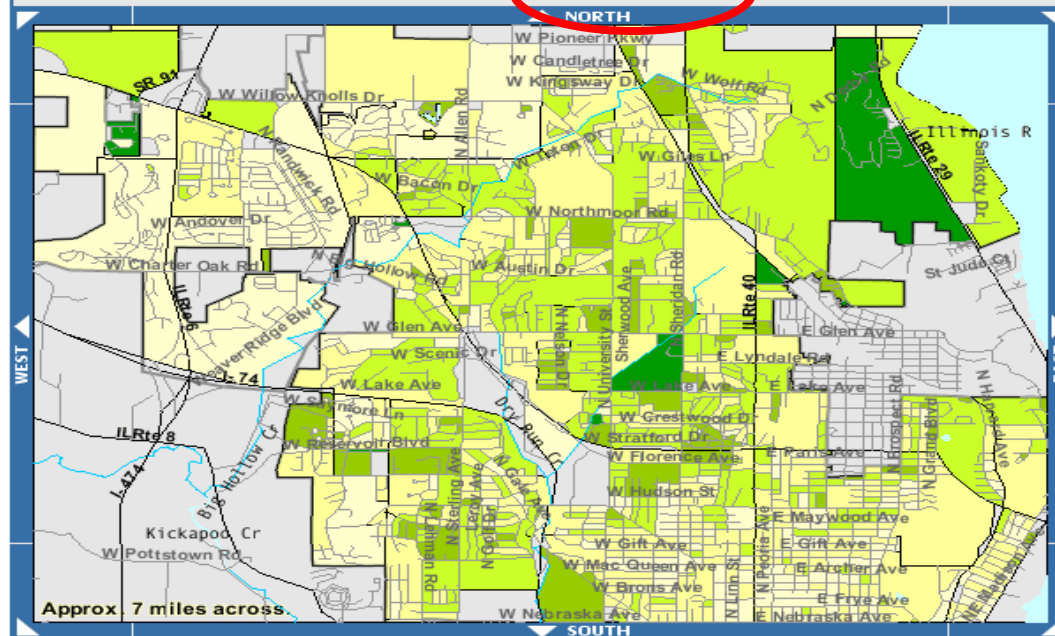


Zoom:



Display map by:

Block



Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrices P1, and P30.

Pinpoint Location

Thematic Maps

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Change...

- [Data Classes](#)
- [Boundaries](#)
- [Features](#)
- [Title](#)

Reposition on...

- [A street address or ZIP code](#)
- [A latitude and longitude](#)
- [The selected geography](#)

[Quick tips](#)

Legend

Data Classes

Percent
0.0 - 8.4
8.5 - 19.0
19.2 - 34.2
34.7 - 63.6
64.3 - 100.0

Features

- Major Road
- Street
- Stream/Waterbody
- Stream/Waterbody



Peoria City township, Peoria County, Illinois by Block TM-P020. Percent of Persons 65 Years and Over: 2000

Universe: **Total population**

Data Set: **Census 2000 Summary File 1 (SF 1) 100-Percent Data**

NOTE: For information on confidentiality protection, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/data/notes/expsf1u.htm>.

Identify - geo name and data value

To reposition the map, enter an **address** or a **ZIP code** and click 'Go'

Street Address [Quick tips](#)

201 SW Jefferson Ave

City

peoria

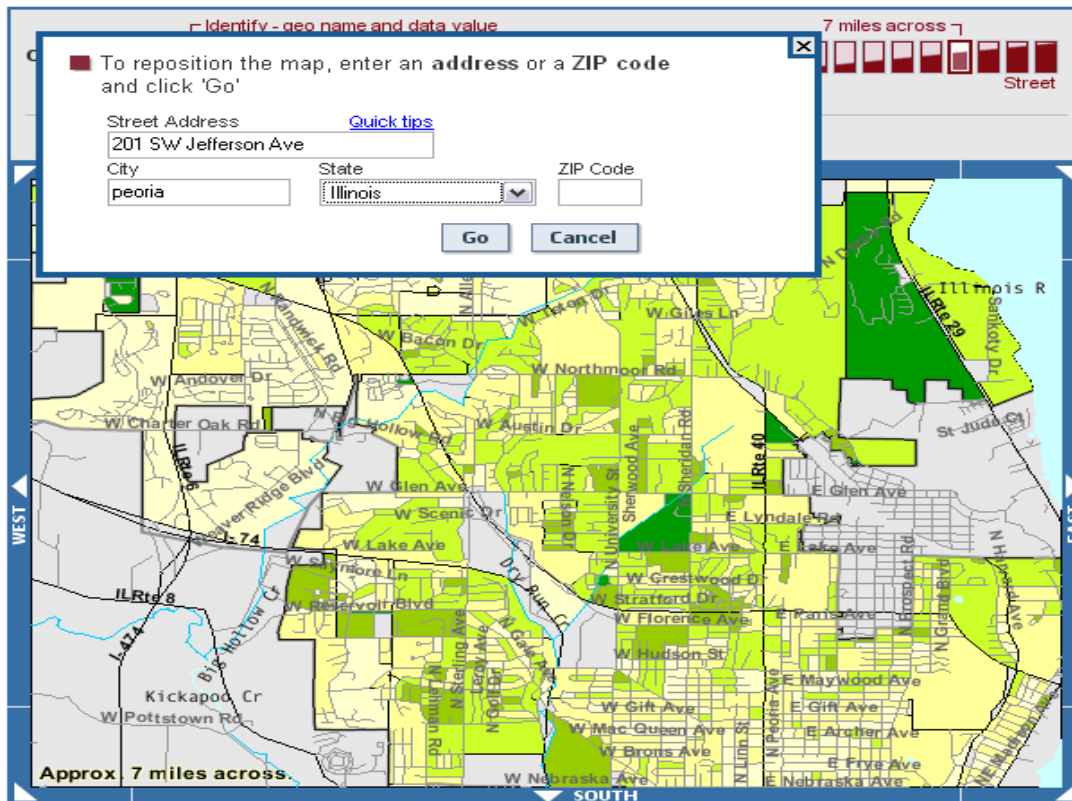
State

Illinois

ZIP Code

[Go](#)

[Cancel](#)



Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrices P1, and P30.

| [Print / Download](#) | [Related Items](#)

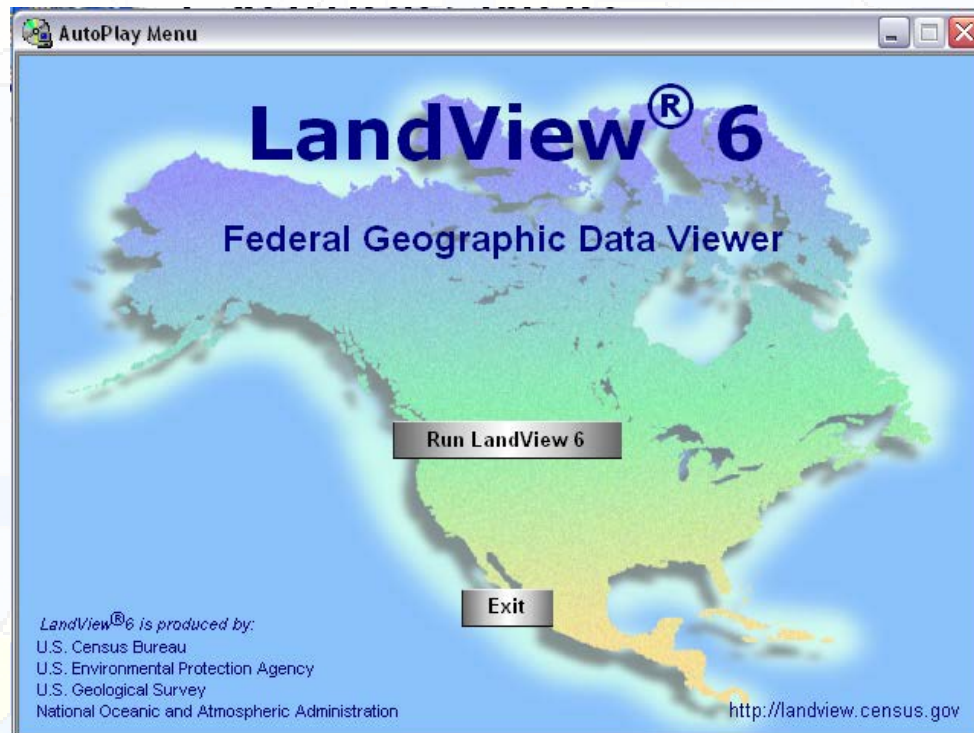
Source: U.S. Census Bureau, Census 2000 Summary File 1, Matrices P1, and P30.

LandView

Very Powerful

Available from Depository Libraries

Can be copied

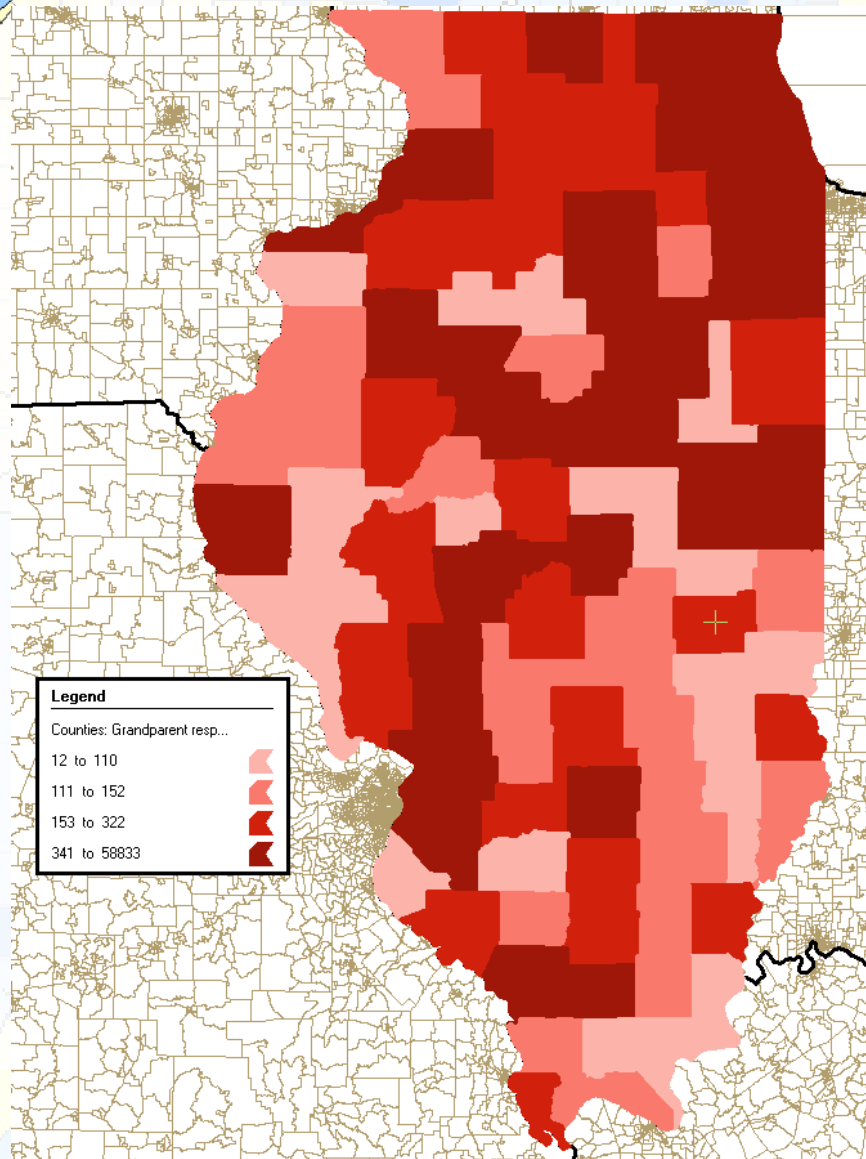




LandView 6 Features

- Population Estimator function to demographic and housing characteristics for user defined radii
- Browse and query the Census, EPA or USGS databases and show the query results on the map
- Vary the scale and control which map layers are shown
- Can be set up to run on a local area network

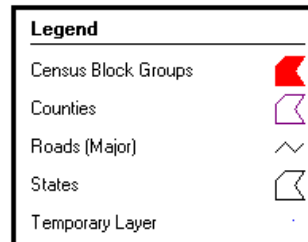
Grandparents responsible for Grandchildren



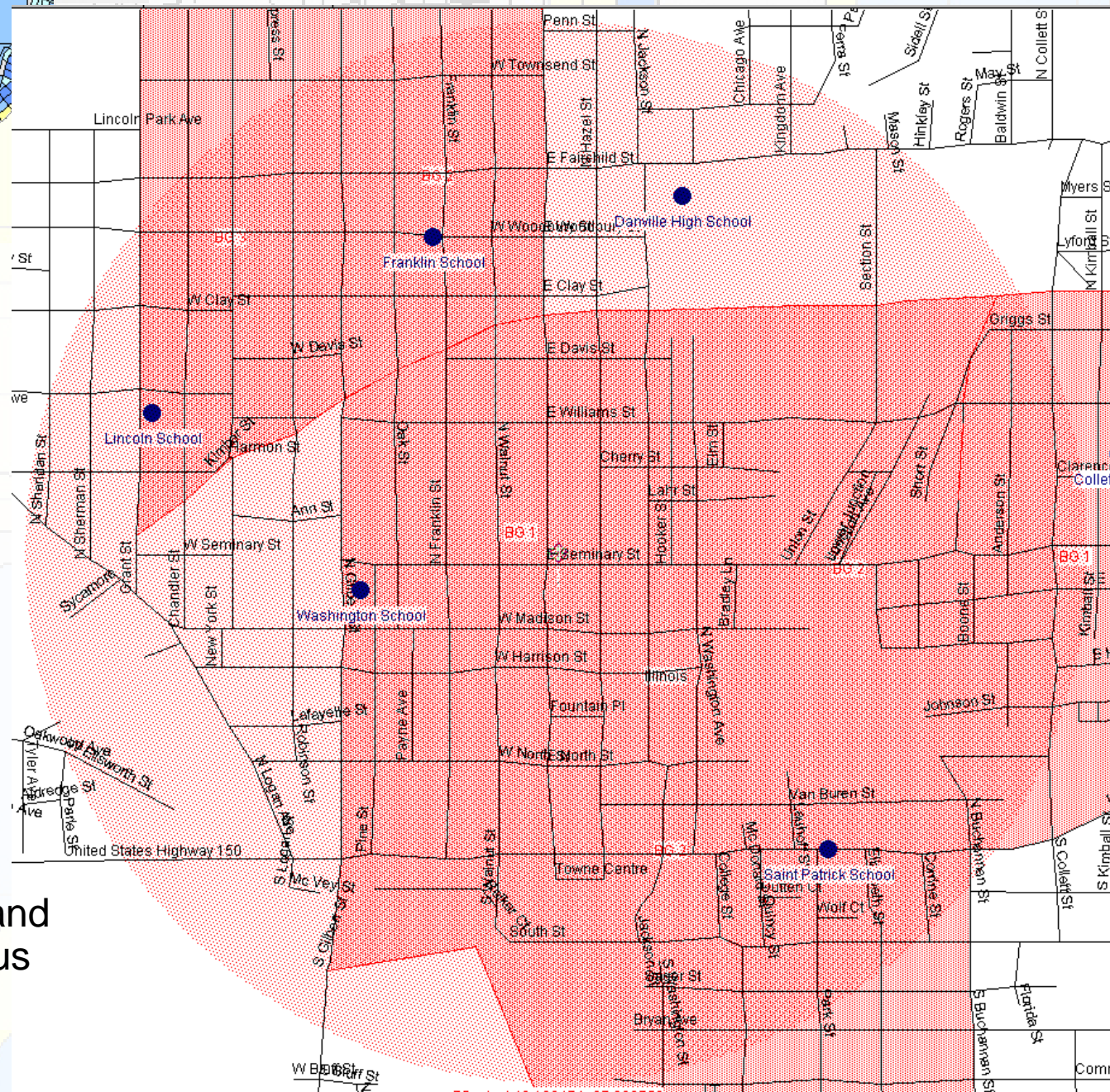
Single Mothers in Poverty

Vermilion Co. IL

Census blocks with more
than 20% of families in
poverty and more than 15%
of families without a
husband



.75 mile radius
around library
showing schools and
area from previous
map





LandView Tutorials

Tutorials available at
<http://www.census.gov/geo/landview/>



Questions?